

Intel® Solution Services

Java* Performance Service

Enhance performance of Java*-based e-Business solutions to help retain and grow your customer base

Are your Java*-based software applications offering you the performance you expect? Do they provide your customers with swift Internet response times? Java Performance Service, one of the service offerings from Intel® Solution Services, helps you maximize the performance of Java software applications on Intel Architecture. By tuning and optimizing your Java applications, you can help ensure your site's response time is as fast and reliable as possible.

Java Performance Service uses a dual-optimization approach to address performance issues. First, our optimization service identifies architecture performance bottlenecks related to your Java-based environment. Then, our runtime tool provides ahead-of-time compilation for your Java application, leaving your system free to execute other tasks at runtime. This unique approach allows you to achieve the best performance available, often without major architecture investments.

How Our Service Works

Support more users and improve response times with Java Performance Service

Bottlenecks can exist from the application level all the way to the system level. From Java Database Connectivity (JDBC*) issues to exception processing overhead to excessive object allocation, we can help eliminate the barriers that slow down your application's performance.

Java Performance Service can help you:

- Achieve infrastructure scalability through focused optimization of Java-based elements.
- Uncover hidden bottlenecks within your Java-based architecture with tools like the TowerJ* Java Performance Analyzer*.
- Tune and optimize your Java software for multiprocessing scalability and clustered environments on Linux* and/or Microsoft Windows*.
- Tune and optimize your entire e-Business environment from the network to enterprise applications.
- Gain access to our expertise on industry-accepted performance tools, including Intel's VTune™ Performance Enhancement Environment, Mercury* Load Runner*, Rational* Suite* TestStudio*, and other third-party tools.
- Gain access to the comprehensive Intel knowledge base for critical performance optimization issues.

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Results

Improve your e-Business infrastructure from the ground up

At the conclusion of your work with Java Performance Service, you receive a detailed report that clearly indicates where bottlenecks exist and recommendations on how to eliminate them. If you prefer, we can implement and test these recommendations for you at one of our worldwide Intel® Solution Centers, allowing your engineers to focus their efforts on other critical projects.

Optional Services

While these services are designed specifically for the Java-based elements of your system, Intel Solution Services also offers a range of other services designed to maximize the efficiency of your e-Business infrastructure.

- **Infrastructure Evaluation and Optimization Service** evaluates all aspects of your infrastructure to uncover systemic bottlenecks. Our engineers analyze existing logs, study user profiles, simulate your environment, and then propose cost-effective recommendations for eliminating these bottlenecks.
- **Application Optimization Service** focuses on application-level bottlenecks. In our secure testing environment, our engineers rigorously test your source code to locate bottlenecks and offer recommendations for removing these barriers and maximizing application performance.

Intel® Solution Centers

- Simulate your environment with flexible, cutting-edge resources
- Experiment with multiple solutions and non-standard configurations under realistic conditions
- Reduce drain on your technical resources
- Work side-by-side with solution engineers to achieve your business goals
- Access our centers around the world for rapid solution development

A worldwide
network of
state-of-the-
art facilities

Java Tuning Top-Down Approach

First, clear system bottlenecks and improve application architecture, then look at low-level issues.

System Level

JVM and JDBC configuration
Database optimization
Processor
Network
Memory
Disk

Application Level

Thread synchronization
Thread management
Object conservation
Heap contention
Good/bad APIs
Locks

Micro-Architecture Level

Cache optimization
**JNI implementation
of critical methods**
Branch prediction
Loop constructs
Data alignment

Iterative process whereby low-level improvements often expose new, high-level bottlenecks.

For more information visit www.intel.com/internetservices/intelsolutionservices

WE ARE EXPERTS ON INTEL® TECHNOLOGY-BASED SOLUTIONS